

ANNUAL REPORT OF THE OHIO ACADEMY OF SCIENCE 1959

Organized 1891 Incorporated 1892
Affiliated with the American Association for the Advancement of Science

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JOHN R. COASH

Executive Secretary

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Executive Secretary, Junior Division

GEORGE G. ACKER

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- | | |
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| A. Zoology: C. C. DAVIS | F. Geography: H. L. HUNKER |
| B. Plant Sciences: R. W. LONG | G. Chemistry: F. L. JAMES |
| AB. Chm. Subsection of Genetics: C. COHEN | H. Science Education: I. SLESNICK |
| C. Geology: R. H. DURRELL | I. Anthropology and Sociology: S. NEWMAN |
| D. Medical Sciences: C. G. BARBER | J. Conservation: E. H. DUSTMAN |
| E. Physics and Astronomy: H. N. MAXWELL | |

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| D. Medical Sciences: R. A. KEHOE | J. Conservation: G. K. DOTSON |
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J. R. COASH, R. P. GOLDTHWAIT, R. W. DEXTER

Nominating

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Library

Academy Librarian, MARY PINSON, Chairman

W. P. SPENCER.....Term expires 1961 W. G. GAMBILL.....Term expires 1963

Publications

THE SECRETARY, Chairman

W. P. SPENCER.....Term expires 1961
W. G. GAMBILL.....Term expires 1963

Trustees of Research Funds

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H. V. KNORR.....Term expires 1961
E. H. CHERRINGTON.....Term expires 1962

THE OHIO JOURNAL OF SCIENCE 59(4): 241, July, 1959.

Necrology

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 J. T. MADDOX Term expires 1961
 H. H. M. BOWMAN Term expires 1962

Ohio Flora

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 K. L. KELLEY Term expires 1961
 J. H. COOPER Term expires 1962

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PAUL ROTHMUND, Chairman
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On the Joint Administrative Board of The Ohio Journal of Science:

W. P. SPENCER Term expires 1961 W. G. GAMBILL Term expires 1963

On the Council of the American Association for the Advancement of Science:

G. W. BURNS; R. W. DEXTER (alternate)

The Council for 1959-60

G. G. ACKER
 C. G. BARBER
 W. C. BEAVER
 R. H. BOND
 D. J. BORROR
 G. W. BURNS
 J. R. COASH
 C. COHEN
 C. C. DAVIS
 D. S. DEAN
 D. M. DELONG
 R. W. DEXTER
 G. K. DOTSON
 R. H. DURRELL

E. H. DUSTMAN
 T. R. FISHER
 W. G. GAMBILL
 R. M. GIESY
 L. O. GILMORE
 R. P. GOLDTHWAIT
 J. C. GRAY
 F. O. HAZARD
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 R. A. POPHAM
 C. RISER
 E. B. ROSSER
 P. ROTHMUND
 I. L. SLESNICK
 W. P. SPENCER
 P. B. TAYLOR
 J. L. THOMPSON

REPORT OF THE SIXTY-EIGHTH ANNUAL MEETING OF THE OHIO ACADEMY OF SCIENCE

The 68th annual meeting was held on the campus of Capital University April 16, 17, and 18, 1959, marking a return of the Academy to that institution after nine years. A total of 713 persons registered for meetings of the senior division. The local committee on arrangements, under the chairmanship of Dr. Robert M. Geist, did an outstanding job in providing facilities to make this meeting a real success.

The Executive Committee, the Council, and the Committee on Election of Fellows met on April 16; their reports are found elsewhere in the Annual Report. On Friday, April 17, ten sections and one subsection held meetings in the following fields: Zoology, Plant Sciences, Genetics, Geology, Medical Sciences, Physics and Astronomy, Geography, Chemistry, Science Education, Anthropology and Sociology, and Conservation. Nearly 150 research papers were presented and discussed. Highlights of the sectional meetings included a symposium on Instruction in Inorganic Chemistry and Qualitative Analysis in the Undergraduate Chemistry Curriculum, a symposium on The Thermonuclear Problem, a symposium on Diseases Transmitted by Animals to Man, a panel on the Role of Geography in Urban Development, and a symposium on Problems Resulting from Population Growth.

Throughout Friday the Junior Division sponsored the Eleventh Annual State Science Day in which 600 projects were entered by nearly 700 students from 213 schools. Sectional meetings of the Senior Division were again suspended at 11:00 AM to give all members an opportunity to view the projects and exhibits of the junior members.

The annual banquet and business meeting were held Friday evening in the Refectory. Dr. Theodore B. Myers served as toastmaster. Greetings from Capital University were

given by President Harold L. Yochum and the response was made by Dr. Rush Elliott of Ohio University. Dr. Richard P. Goldthwait, president of The Ohio Academy of Science, delivered his presidential address, "Scenes in Ohio During the Last Ice Age." Professor G. G. Acker, Executive Secretary of the Junior Division announced awards to outstanding high school teachers. At the business meeting officers were elected to serve for the coming year, as listed at the head of this annual report. History was also made for The Ohio Academy of Science in the announcement of the first Executive Secretary. This post will be filled by Mr. Kenneth B. Hobbs who is expected to assume his new duties on July 1. Thirty-seven members of the Academy were announced as newly elected Fellows. Their names and sectional affiliation follow:

B—OVID A. ALDERMAN	G—ALBERTINE KROHN
G—JACK CALVERT	B—ROBERT W. LONG
J—WILLARD CARMEAN	C—MILFORD S. LOUGHEED
AB—CARL COHEN	E—HOWARD N. MAXWELL
A—JOHN H. COOPER	D—JURGEN R. MEYER-ARENDT
A—JOHN L. CRITES	I—FRANK F. MILES
E—JOHN G. DAUNT	J—HENRY R. MOORE
G—JESSE H. DAY	C—H. GRAY MULTER
A—FRANK DEMARINIS	A—THEODORE B. MYERS
J—G. KENNETH DOTSON	I—SAMUEL C. NEWMAN
J—EVAN C. DRESSSEL	G—HAROLD G. ODDY
C—RICHARD H. DURRELL	A—GLENN W. PETERJOHN
A—N. S. FECHHEIMER	J—HOMER F. PRICE
B—T. RICHARD FISHER	G—EDWARD B. ROSSER
B—ROBERT M. GIESY	C—GEORGE C. SHEARROW
D—GORDON E. GREEN	H—IRWIN L. SLESNICK
A—JOHN R. HARRISON	A—ARTHUR G. STEINBERG
G—NELSON W. HOVEY	F—JOHN L. THOMPSON
E—E. LEONARD JOSSEM	

President Goldthwait presented Certificates of Appreciation to the Kroger Company, the Owens-Illinois Glass Company, and Dr. C. M. Goethe, a Distinguished Service Award to the Charles F. Kettering Foundation, and Ten-Year Membership Awards to O. M. Scott & Sons, Bonded Scale and Machine Company, Wittenberg College, Case Institute of Technology, Marietta College, Bowling Green State University, Miami University, Ohio University, University of Cincinnati, and Ohio Wesleyan University.

On Saturday the section of Physics and Astronomy held a joint meeting with the Ohio Section of the American Physical Society. The section of Geology held an all-day field trip, and the section of Physics and Astronomy sponsored a trip to the 2000 kilowatt reactor of the Battelle Memorial Institute.

Respectfully submitted,

GEORGE W. BURNS, *Secretary*

REPORT OF THE EXECUTIVE COMMITTEE AND THE COUNCIL

The Executive Committee met October 11, 1958, December 5, 1958, January 24, 1959, March 28, 1959, and April 16, 1959; the Council met December 6, 1958 and April 16, 1959.

1. *Meetings of the Executive Committee.*—Much of the meeting time of this committee was taken up in formulation of application forms for the position of Executive Secretary, in screening more than sixty applications for that post, and in interviewing applicants for the position. As noted in the report of the annual meeting, Mr. Kenneth B. Hobbs is expected to assume his duties as Executive Secretary on July 1. In other actions, the committee approved a new seal for the Academy, authorized a new edition of the information brochure, confirmed the requirement of abstracts of papers at sectional meetings, authorized application to the National Science Foundation for a grant to assist with a special symposium in the section of Chemistry at the annual meeting, authorized acceptance of the invitation of the University of Toledo for the Academy to hold its 1962 meeting there, authorized a contract with The Ohio State University Press for publication of "Woody Plants of Ohio," accepted a grant of \$15,000.00 from the Charles F. Kettering Foundation in support of the Executive Secretaryship project, and authorized three Certificates of Appreciation, a Distinguished Service Award, and ten Ten-Year Membership Awards.

2. *Meetings of the Council.*—Reports were presented by all officers and committee chairmen. Their annual reports are presented in the following pages.

Steps are being taken to secure a grant from the National Science Foundation to finance part II of "The Vascular Flora of Ohio," which will be "Monocots of Ohio," under the direction of the Academy's Ohio Flora Committee. President Goldthwait reported that letters had been sent to the Governor and to State Highway Department officials regarding the preservation of outdoor education and recreational areas, as urged by the section of Conservation. Replies, assuring the Academy that its concerns were being kept in mind, were received subsequently from both the Governor and the Director of Highways.

The report of the Committee on Training and Certification of Science Teachers is to be circulated to all members of the Council with a request for suggestions and criticisms. Council also authorized the chairman of the committee to draw up a proposal for a grant of funds to be used to speed and facilitate the work of this committee.

The next annual meeting was scheduled for April 21-23, 1960 at Antioch College, Yellow Springs.

Respectfully submitted,

GEORGE W. BURNS, *Secretary*

REPORT OF THE TREASURER
FISCAL YEAR 1958

ACADEMY BUSINESS

	1958	1957
RECEIPTS:		
Bank Balance, January 1.....	\$ 3,443.15	\$10,735.77
Membership Dues.....	4,281.00	4,160.00
Sale of Publications.....	22.52	6.14
U. S. Bonds interest.....	12.50	47.50
Modern Finance Co. interest.....	400.00	—
National Science Foundation Grant No. 2714.....	2,000.00	4,000.00
National Science Foundation Grant No. 5127.....	400.00	—
Gift—Pittsburgh Plate Glass Foundation.....	100.00	—
Gift—C. M. Goethe.....	100.00	50.00
Gift—C. F. Kettering Foundation.....	15,000.00	—
Junior Academy.....	1,392.60	1,022.00
Rental of exhibit space.....	25.00	—
Refund.....	—	10.00
From Research Fund, BancOhio Stock.....	—	22.00
	<u>\$27,176.77</u>	<u>\$20,053.41</u>
EXPENDITURES:		
Subscriptions and engraving, Ohio Journal of Science.....	\$ 2,376.90	\$ 3,068.54
Printing Annual Report.....	148.83	165.51
Printing Announcements and Notices.....	269.00	215.00
Public Relations.....	92.25	65.92
Postage, office supplies, bank charges, auditing and other administrative expense.....	971.32	1,049.05
National Science Foundation Grant No. 2714.....	2,672.83	2,675.93
National Science Foundation Grant No. 5127.....	386.07	—
Junior Academy.....	2,151.60	1,320.97
Academy Conference.....	23.00	11.50
BancOhio Stock.....	—	37.84
Modern Finance Company Investment Certificate.....	—	8,000.00
Bank Balance, December 31.....	18,084.97	3,443.15
	<u>\$27,176.77</u>	<u>\$20,053.41</u>
Excess Income over Expense.....	\$14,641.82	\$ 707.38

RESEARCH FUND

RECEIPTS:		
Bank Balance, January 1.....	\$ 479.08	\$ 448.79
Interest, Savings Account.....	128.49	83.17
U. S. Bonds Interest.....	5.00	5.00
BancOhio Dividends.....	50.00	44.60
Grant—A.A.A.S.....	366.00	—
Bank Service Overcharge.....	—	3.69
	<u>\$ 1,028.57</u>	<u>\$ 585.25</u>
EXPENDITURES:		
Grants.....	\$ 700.00	\$ —
Bank Service Charges.....	—	1.00
Interest, still in Savings Account.....	128.49	83.17
BancOhio Stock, to Academy.....	—	22.00
Bank Balance, December 31.....	200.08	479.08
	<u>\$ 1,028.57</u>	<u>\$ 585.25</u>
Excess Income over Expense.....	—	30.29
Excess Expense over Income.....	\$ 279.00	—

Respectfully submitted,

ELTON F. PADDOCK, *Treasurer*

REPORT OF THE ACADEMY LIBRARIAN

The Ohio Journal of Science, official publication of The Ohio Academy of Science, has been used to initiate 27 new exchanges, with the Ohio State University Libraries being the recipient of 38 new titles. The new total of active exchanges would have increased from 543 to 570, but, due to several reasons, it was necessary to drop 14 institutions from the exchange list. The actual total of exchanges, as of April 10, 1959, is 556. Of the new exchanges, 22 are foreign, and 5 are domestic.

The Ohio Journal of Science is being sent to 423 foreign institutions and 133 United States institutions. The institutions dropped from the exchange list were 7 U. S. and 7 foreign institutions. Reasons for dropping the 14 institutions were, the exchange publications had been suspended, request received for exchange to be converted to a subscription, no response to claims for missing exchange materials, (a time limit of three months is given foreign institutions), and publications in the field of natural sciences no longer desired on exchange.

Revenue for the sale of the *Special Papers*, by the Gift and Exchange Division amounted to \$6.67.

Respectfully submitted,

(MISS) MARY B. PINSON, *Librarian*

REPORT OF THE JOINT ADMINISTRATIVE BOARD OF
THE OHIO JOURNAL OF SCIENCE

The annual meeting of the Joint Administrative Board of The Ohio Journal of Science was held at Columbus on April 4, 1959. The meeting was called to order by Board Chairman Hoel. Present were Mr. B. S. Meyer and Mr. Robert L. Bates representing The Ohio State University; Mr. C. E. Hoel representing The Ohio Academy of Science; and Mr. H. L. Plaine and Mr. R. A. Popham of The Ohio Journal of Science staff. Mr. Warren P. Spencer was unable to attend.

Minutes of the last meeting were approved as read.

Mr. Robert L. Bates was elected Chairman of the Board for the year 1959-60.

The report of the business manager was approved as read. This report, which accompanies these minutes, is mainly in the form of a financial statement for Volume 58. Mr. Popham reported that during the past summer the back issues of the Journal were carefully wrapped and arranged in chronological order on steel shelving in one location in the main Ohio State University Library. He also reported that (1) the bank balance is substantially the same as that of a year ago; (2) circulation of the Journal increased to about 1925 during the year; (3) the basic charge for printing Volume 59 of the Journal will be about \$200.00 greater than for Volume 58; (4) postage charges will be about \$60.00 greater for Volume 59; (5) there will be an estimated deficit of about \$600.00 for Volume 59, exclusive of gifts.

The report of the editor, Mr. Plaine, was approved as read. A copy of this report is attached to these minutes. The editor indicated that the Journal is about six months behind in publication of papers. This time delay in publication of papers is considered to be about minimum.

The following staff members were re-elected for the year 1959-60: Mr. Plaine, Editor; Mr. Popham, Business Manager; and Mr. T. H. Langlois, Book Review Editor.

The Board commended the Editor and Business Manager for their efforts in implementing the change to a new and more attractive cover which first appeared on the January, 1959 issue of the Journal.

After a short discussion, the Board agreed unanimously that the Journal should no longer continue to depend upon gifts in order to balance its budget. Mr. Popham was instructed to write a letter to the President of The Ohio State University requesting the sum of \$3,000.00 from the University in payment of subscriptions which the library will use as a basis for exchanges with other scientific organizations and publications during the fiscal year 1959-60.

The sum of \$3,000.00 annually represents an increase of \$500.00 over the rate of payment which the University has made to the Journal since 1953 when costs of publication were considerably lower than at the present time. In recommending this increase, the Board was mindful of the fact that income from The Ohio Academy of Science subscriptions is likely to increase during the year 1959.

There being no further business, the Board adjourned.

Respectfully submitted,

RICHARD A. POPHAM, *Secretary of the Board*

THE OHIO JOURNAL OF SCIENCE
BALANCE SHEET

	Vol. 57 Fiscal Year 1/1/57 12/31/57	Vol. 58 Fiscal Year 1/1/58 12/31/58
RECEIPTS:		
Bank balance at beginning of period.....	\$ 2,751.32	\$ 2,974.19
O.S.U.—paid for subscriptions.....	2,500.00	2,500.00
O.A.S.—paid for subscriptions.....	2,009.00	2,044.50
Non-members—paid for subscriptions.....	663.90	599.00
Separate numbers, volumes and reprints sold.....	210.75	656.99
50 year index sold.....	20.00	20.00
O.A.S.—paid ½ cost of plates.....	259.54	332.40
O.A.S.—paid for annual report.....	165.51	148.83
Miscellaneous.....	67.53	132.55
Advertisements.....	447.18	383.94
Charles F. Kettering—Gift.....	800.00	0.00
	<hr/>	<hr/>
EXPENDITURES:	\$ 9,894.73	\$ 9,792.40
Spahr and Glenn—printing O.J.S.....	\$ 5,482.91	\$ 5,628.44
Bucher Engraving—plates.....	664.80	455.99
Postage and express.....	240.74	239.91
Labor.....	52.50	53.00
Office expenses and bank charges.....	145.69	84.00
Advertising of the O.J.S.....	10.00	50.00
Reprints.....	0.00	26.93
Mailing envelopes.....	255.37	0.00
Refunds.....	1.00	10.50
Miscellaneous.....	67.53	13.55
Bank balance at end of period.....	2,974.19	3,230.08
	<hr/>	<hr/>
	\$ 9,894.73	\$ 9,792.40

THE OHIO JOURNAL OF SCIENCE
REPORT OF THE EDITOR OF VOLUME 58, 1958,
to the Joint Administrative Board

Volume 58 of The Ohio Journal of Science contained 412 pages (4 pages more than volume 57), of which 363 pages were devoted to 53 scientific papers in 9 areas of science (as designated by sections of The Ohio Academy of Science); 13 pages were devoted to affairs of the Academy 10 pages to advertising; and 26 pages to announcements, book notices, index, table of contents, and routine journal copy. Thirty-six book notices were published. Publication of papers by fields is presented in the following table.

By making greater demands upon the authors with respect to terseness and clarity, and by modifying somewhat our format for planning each issue, we have been able to increase the number of papers published in volume 58 over those published in each of the three previous volumes without substantially increasing the number of pages devoted to them. We wish to thank the various members of the Academy, as well as our many colleagues outside the state, who have so generously reviewed manuscripts or acted as referees.

Respectfully submitted,

HENRY L. PLAINE, *Editor-in-Chief*

Distribution by Field of Articles Published in 1958

Field	No. of articles	Total pages	Percent
Anthropology and Sociology	4	27	7.4
Chemistry	8	35	9.7
Conservation	1	12	3.3
Geography	1	8	2.2
Geology	6	62	17.1
Plant Sciences	9	61	16.8
Science Education	2	15	4.1
Zoology	21	136	37.5
Genetics	1	7	1.9
	<hr/>		
Total Scientific Papers	53	363	100.0

REPORT OF THE DIRECTOR OF PUBLIC RELATIONS

This year eight news releases were or are being sent out during the period preceding and accompanying the annual meeting. Coverage was somewhat better than last year, though again not much material was provided outside of the actual program of the annual meeting. No person in the Academy provided any information for news releases during the year, except in connection with the District Science Days. Again, without a clipping service (or the cooperation of members of the Academy) we have no way of judging the effectiveness of the releases.

It was hoped that all abstracts and some entire papers would be ready for distribution at least a week prior to the annual meeting, but inasmuch as only half the Section Vice-Presidents submitted abstracts in advance this has not been possible. Those submitted are being made available during the meeting.

A budget of \$125.00 was provided for Public Relations this year. Recently the Executive Committee authorized up to another \$50.00. Total expenditures for the year as follows:

Postage.....	\$ 67.30
Stencils.....	21.50
Typing.....	62.50
Total.....	<u>\$151.30</u>

Plans for next year will, of course, depend on the action of the new Executive Secretary. In general, it is anticipated that the position of Director of Public Relations will become an advisory one.

Respectfully submitted,

JOHN R. COASH, *Director*

REPORT OF THE EXECUTIVE SECRETARY OF THE JUNIOR DIVISION,
OHIO ACADEMY OF SCIENCE

The eleventh year of Junior Division operations was devoted primarily to the expansion of the Science Day Program in order to keep pace with increased interest throughout the State. Emphasis was placed upon encouraging local science days for the purpose of choosing participants at District Science Days. The number of projects permitted at State Science Day was limited for the first time in our history. The first brochure of the Junior Division was printed in January. Activities prescribed by the Constitution (District Science Day, State Science Day, Ohio Academy of Science News, Scholarship Tests, Teacher Awards and Special awards) took place in a normal manner with several improvements. The State Science Day Award will be presented for the first time at the 1959 State Science Day.

SECTION I ORGANIZATION

The only change in district and state organization was the establishment of a State Science Day Award Committee to administer the new award.

SECTION II DISTRICT SCIENCE DAYS

Approximately 6000 students in 7th through 12th grades exhibited projects at the eight district science days. More than 500 schools were represented at these district science days which were visited by over 11,000 persons. For the second consecutive year, Central District restricted participation to 5% of each school's enrollment in science courses. The most difficult problem faced by District Councils during the present year was that of selecting entries for State Science Day. Several plans for this selection were operative including judging by points systems and special judging of the outstanding projects. A brief summary of the 1959 District Science Day Program follows:

	Projects	Individuals
March 22—Central, Ohio State University.....	790	790
—East, Muskingum College.....	263	287
—West, Wittenberg University.....	475	588
—Southwest, Miami University.....	515	647
April 4 —Northeast, Kent State University.....	747	799
—Northwest, Bowling Green State University.....	1353	1552
—North Central, Heidelberg.....	700*	800*
—Southeast, Ohio University.....	300*	350*

*Estimate

A complete analysis of District Science Day participation is included as an annex to this report.

SECTION III STATE SCIENCE DAY

The number of projects to be entered at the 1959 State Science Day is limited to 600. The total number was based upon space and facilities available at Capital University and upon the number of judges available.

Based upon participation at the 1958 State Science Day, each district was allocated spaces at this year's State Science Day as follows: Southeast 24; East 36; Northeast 75; North Cen-

tral 72; Central 144; Southwest 50; West 62; and Northwest 138. Since about 75 of these are joint projects the total number of participants will be nearly 700 representing 213 schools. Sectional meetings will be suspended at 11:00 AM for judging of projects.

SECTION IV OHIO ACADEMY OF SCIENCE NEWS

"The Ohio Academy of Science News" replaced "Newsletter" as the name of newspaper published by the Junior Division. Mrs. Clara Kinney of Chillicothe served as editor for the three numbers published this year. Circulation increased from 5000 to 5500 copies per issue.

SECTION V SCHOLARSHIP TESTS

Capital University testing service will conduct the scholarship tests this year. Mr. Sylvan Mikelson, University School, Ohio State University, is chairman of the scholarship committee.

SECTION VI TEACHER AWARDS

This year recipients of the Outstanding Teacher Award will be permitted to choose membership in one of a dozen different scientific societies in addition to AAAS.

The 1959 Outstanding Teacher Award winners are:

Northeast	—Betty Olmstead, Northfield High School
East	—John V. Pergi, Steubenville High School
Southeast	—Robert Harrison, Jackson High School
North Central	—Mrs. E. C. (Thelma) D'Almaine, Danbury Township
Central	—Sister Rosarii, Bishop Watterson
Southwest	—Harold Shaw, West Alexandria High School
West	—Mr. L. L. Brinkley, Blume High School, Wapakoneta
Northwest	—Ralph Benard, Lake Township High School

VII SCHOOL AWARDS

A. The Kroger Company will present eight awards again this year. The cash portion of these awards has been reduced to \$25 in 1959. Mr. Irwin Slesnick, chairman of the Special Awards Committee announces the following winners for 1958:

Northwest	—Archbold High School, Archbold
North Central	—Avon Lake High School, Avon Lake
Northeast	—Mogadore High School, Mogadore
West	—Jackson Local School, (Darke County) Union City, Indiana
Central	—Bishop Watterson High School, Steubenville
East	—Steubenville High School, Steubenville
Southwest	—Purcell High School, Cincinnati
Southeast	—Fort Frye Local School, Beverly

B. State Science Day Award. This award consists of a bronze plaque and will be awarded on the basis of participation at State Science Day. The plaque is engraved as follows:

OHIO ACADEMY OF SCIENCE STATE SCIENCE DAY AWARD 19—

All schools meeting the following criteria will be awarded a plaque:

- (1) A minimum of 5 projects at State Science Day
- (2) No individual rating less than Excellent.
- (3) 85% of all participants rated "Superior".

Thirty one schools have five or more projects entered this year.

SECTION VIII EXTENSION

Thirty nine school organizations have affiliated with the Junior Division for the purpose of conducting local science days. Sixteen schools report a total of nearly 36,000 visitors viewed the exhibits of more than 6300 students. Morrow County Science Week had 885 participants.

The following affiliated Science Days are listed by district.

Northeast	—Canton City; Medina.
East	—Bishop Rosecrans, Zanesville; Scio
Southeast	—Chillicothe; Logan.
North Central	—Jackson Junior High, Sandusky; Morrow County; Ottawa County; Sandusky County; Erie-Huron County; Galion; Elyria; Lexington; St. Mary, Sandusky; Avon Lake; Marion Catholic; Mansfield Secondary; Clyde; Marion.
Central	—Bishop Watterson; St. Mary of the Springs; Licking County; Westerville; New Albany; St. Mary, Columbus; Lancaster.
Northwest	—Perryburg; Liberty Center; Fostoria; Great Northern Science Association; Lake Township; North Baltimore; Defiance.

West —Fairborn; Fort Loramie; Champaign County.
 Southwest —Kettering, Fairmont; Germantown.

SECTION IX BROCHURE

The first brochure for the Junior Division was printed in January. It is an eight page illustrated brochure printed in brown. Copies have been distributed to all mailing lists of the Academy.

SECTION X CHANGES AND REGULATIONS

Regulations were changed to permit affiliation of local science days with the Academy and to establish associate memberships for participants at these local exhibits.

SECTION XI PERSONNEL

Changes in personnel in the Junior Division Council have been made as follows:

Councilmen:
 Southeast —Dr. James T. Shipman, Ohio University
 —Ralph R. Walker, Logan High School
 East —Rudolph Gerlach, Muskingum College
 Northeast —Robert E. Stevens, Lincoln High School, Canton
 Northwest —Richard S. Phillips, Findlay High School
 Southwest —Dr. Floyd James, Miami University
 —Harold Shaw, West Alexandria High School
 Central —Joseph A. Ralston, Westerville High School
 Editor Ohio Academy of Science News—Mrs. Clara Kenney
 Committee chairmen—Scholarship, Sylvan Mikelson, University School, Ohio State University
 —State Science Day Awards, Charles Hoel, Columbus

SECTION XII MISCELLANEOUS

Owens-Illinois Glass Company of Toledo donated 700 sets of souvenir glasses for distribution to science day participants.

Dr. Arthur L. Lutz is chairman of the committee studying ways of controlling entries at State Science Day.

The large number of participants at the district science days indicates the necessity of continued action to establish new districts and/or to encourage elimination by affiliated local science days.

A major problem facing the Junior Division involves coordination of the many science exhibits throughout the state.

Respectfully submitted,

GERALD ACKER, *Executive Secretary*

REPORT OF THE TRUSTEES OF RESEARCH FUNDS

FOR THE PERIOD OF APRIL, 1958 TO APRIL, 1959

During this interval the Trustees received four requests for grants in aid for graduate student research. All of these requests were honored as follows:

Mr. Wesley R. Tinker, III, Department of Geology, Ohio State University; aid for travel expense in compiling data for Master's thesis.....\$60.00

Mr. Thomas D. Erickson, Department of Geology, Ohio State University; aid for travel expense in compiling data for Master's thesis.....\$60.00

Mr. Irwin H. Kantrowitz, Department of Geology, Ohio State University; aid for travel expense in compiling data for Master's thesis.....\$60.00

Mr. Weston Blake, Jr., Department of Geology, Ohio State University; for purchase of 134 Norwegian air photos of a part of North-East Land, Spitsbergen, the field area where data were obtained in glacial geology and geomorphology, for his doctorate dissertation. \$95.00

Total of the four grants made.....\$275.00

This leaves at present a balance of \$349.00 available from the A.A.A.S.

No requests for grants were received from the Junior Academy.

Respectfully submitted,

GLENN W. BLAYDES, *Chairman*

REPORT OF OHIO FLORA COMMITTEE

Manuscript of "Woody Plants of Ohio" has been accepted for publication by The Ohio State University Press as soon as completed. This will be *Part I* of *Vascular Flora of Ohio*. It is planned that the final manuscript will be completed by June 1959.

The Flora Committee, at a special meeting November 4, 1958, approved a proposal to be sent to the National Science Foundation for work on *Part II* of the *Vascular Flora of Ohio*, *The Monocotyledons*. The committee has named E. Lucy Braun as chief investigator of this project.

Work is continuing on other parts of the Flora. Following the preliminary work on the Compositae by Robert W. Long Jr., critical checking of herbarium material of the family is in progress. This portion of the study follows the preliminary list of species which appeared in the spring of 1957.

Three additional investigators will begin participation in the preparation of the Flora. They are Tom Cooperrider, William Easterly, and Donald Dean, all taxonomists in the state of Ohio.

Respectfully submitted,

T. RICHARD FISHER, *Chairman*

REPORT OF THE ACADEMY HISTORIAN

The Academy Historian is continuing a series of reports on the history of The Ohio Academy of Science and its various sections. At the Akron meeting in 1958 the series was initiated with reports given to the Section of Zoology and the Section of Plant Sciences. This year similar accounts will be presented to the Section of Geology and the Section of Medical Sciences. Additional ones are planned for the future in chronological order.

A bibliography pertaining to the history of The Ohio Academy of Science has been compiled and is herewith presented.

- Academy Secretaries.** 1892. The Ohio State Academy of Science. Constitution, by-laws, officers, list of members, and historical sketch. (Historical sketch by W. R. Lazenby). Published by authority of the executive committee (Columbus, Ohio).
- 1893-1903. Annual Report (1-11) of the Ohio State Academy of Science. Published by the Academy.
- 1904-1912. Proceedings of the Ohio State Academy of Science. Annual Report (12-21) Vol. 4 (parts 1, 5, 7, 9); Vol. 5 (parts 1, 4, 6, 8); Vol. 6 (part 1). Published by the Academy.
- 1913-1930. Proceedings of the Ohio Academy of Science. Annual Report (22-40). Vol. 6 (parts 2-5); Vol. 7 (parts 1-10); Vol. 8 (parts 1, 2, 4, 6, 7). Published by the Academy.
- 1931-1958. Annual Report of The Ohio Academy of Science (41-58). Ohio Jour. Sci. July issue (no. 4) of Vol. 31-40, 42-43, 49-58; Nov. issue (no. 6) of Vol. 41; Sept. issue (no. 5) of Vol. 44-48.
1916. Annual Report of The Ohio Academy of Science. Twenty-fifth meeting—quarter centennial anniversary—1915. Proceed. Ohio Acad. Sci. 6(5): 205-406.
1931. Past officers, committeemen, places of annual meeting: 1892-1931. Ohio Academy of Science. Ohio Jour. Science. 31(4): 196-198.
- 1892-1958. Programs, Annual Meeting of The Ohio Academy of Science. 1892-1958. (A nearly complete set is on file with the Academy historian).
- Anon.** 1914. List of members and constitution and by-laws of The Ohio Academy of Science. 20 pp. Published by publication committee of the Academy (Columbus, Ohio).
1934. Concerning the journal. Ohio Jour. of Sci. 34: 65-66.
- Alexander, W. H.** 1941. The Ohio Academy of Science (Mostly historical). Ohio Jour. Sci. 41(4): 287-311. (Fiftieth Anniversary celebration—includes portraits of all charter members assembled and arranged by E. M. Miller).
- Blaydes, G. W.** 1951. A brief history of the Ohio Journal of Science. Ohio Jour. Sci. 51(4): 205-206.
- Dexter, R. W.** 1958. Report of the academy historian. Ohio Jour. Sci. 58(4): 259-260.
- Krecker, F. H.** 1950. The Ohio Junior Academy of Science. Ohio Jour. Sci. 50(6): 301-304.
- Lampe, Lois.** 1950. The origin and development of the Ohio State University with special reference to the biological sciences. Ohio Jour. Sci. 50(5): 201-204.
- Lazenby, W. R.** 1915. Historical sketch of The Ohio Academy of Science. Proceed. Ohio Acad. Sci. 6(5): 277-283.
- Mendenhall, T. C.** 1915. The relation of the academy to the state and to the people of the state. Proceed. Ohio Acad. Sci. 6(5): 284-298.
1920. History of the Ohio State University. Vol. 1. Ohio State Univ. Press, Columbus.
- Miller, Ethel M.** 1931. The publications and exchanges of The Ohio Academy of Science. Ohio Jour. Sci. 31: 224-226.
1953. General Index, 1900-1950. The Ohio Journal of Science (pp. 32-33; 73-74 for historical references).
- O'Neal, C. E.** 1939. Presidential address: Taking inventory. Ohio Jour. Sci. 39: 213-219.
- Osborn, H.** 1944. The research fund of The Ohio Academy of Science. Ohio Jour. Sci. 44(5): 213-218.
- Rice, E. L.** 1916. Ohio Academy of Science quarter-centennial anniversary. Ohio Jour. Sci. 16: 109-112.
- Schaffner, J. H.** 1902. Historical sketch. Tenth Annual Rept. Ohio State Acad. Sci. p. 11.
- Various authors.** 1941. Invitational addresses at the fiftieth anniversary celebration of the Ohio Acad. Sci. Ohio Jour. Sci. 41: 103-286.
- Webster, F. M.** 1900. Future work of the Academy of Science in Ohio. Eighth Annual Rept., Ohio State Acad. Sci. pp. 16-17.

Respectfully submitted,

RALPH W. DEXTER, *Chairman*

REPORT OF THE RESOLUTIONS COMMITTEE

Be it resolved that the members of The Ohio Academy of Science express to the Administration of Capital University, to Dr. Robert M. Geist, chairman of the local committee on arrangements, and to the several members of his committee, their appreciation of the excellent facilities and thoughtful hospitality which have contributed greatly to the success of this, the 68th meeting of the Academy.

Respectfully submitted,

RALPH V. BANGHAM, *Chairman*

REPORT OF THE NECROLOGY COMMITTEE

In alphabetical order is a listing of the deaths that occurred in the membership of The Ohio Academy of Science in the interval between the annual meetings of April, 1958 and April, 1959.

1—**Mr. Arthur R. Harper**, Fellow of the Academy in the Conservation Section, field naturalist for the Ohio Division of Conservation and Natural Resources and a nature columnist for the Columbus Dispatch. Mr. Harper was born at Plain City, Ohio on Jan. 6, 1883. For a time he was a student at the Indiana State Normal School but did not complete the course to become a teacher.

In his earlier life he was an auditor for the Ohio State Life Insurance Company until 1939 when he became a Field Naturalist for the State of Ohio. He retired in 1953.

On July 17, 1929 he married a widow, Mrs. Ethel McHenry, by whom he had two daughters, Mrs. R. O. Blackwood and Mrs. James Meagher, and reared two step-children, Mrs. Wilson Foley and Bush McHenry. During his life he received citations for his booklets on wild life used in Ohio Schools and two books *Ohio In the Making* on the historical geology of the State and *Birds of Ohio*. He was a member of the Wheaton Club and the Audubon Society.

Mr. Harper died in Columbus on Jan. 1, 1959 of a cerebral hemorrhage in his 75th year and was interred in Dublin Cemetery, Dublin, Ohio.

2—**Dr. Normand Louis Hoerr**, a Fellow of the Ohio Academy in the Medical Section and Head of the Department of Anatomy in the Medical School of Western Reserve University. He was born May 3, 1902 in Peoria, Illinois, and was graduated from Johns Hopkins University with the Bachelor of Arts degree in 1923, received the Ph. D. from the University of Chicago in 1929 and the M.D. degree from the same institution in 1931. Dr. Hoerr held teaching positions of Assistant, Instructor, and Assistant Professor at Chicago from 1925 to 1939, when he accepted the position of Henry Wilson Payne Professor of Anatomy and Director of the Department of Anatomy in the Medical School at Western Reserve University until his death in 1958.

On Sept. 10, 1927 Dr. Hoerr married Miss Virginia Gale. There were no children.

Dr. Hoerr was the President-elect of the American Association of Anatomists at his demise and a member of the A.A.A.S., Sigma Xi, Alpha Omega Alpha, Phi Beta Pi, Society for Experimental Biology and Medicine, Cleveland Academy of Medicine, Director of the Cleveland Medical Library and Coeditor of Blakiston-Gould's Medical Dictionary. In the bibliography of his many books and scientific articles are 29 titles in the fields of anatomy, cytology and histology.

Dr. Hoerr died of carcinoma in his 56th year in Cleveland on Dec. 14, 1958 and was buried in Baltimore, Maryland.

3—**Dr. George D. Hubbard** was a Fellow of the Geology Section and Emeritus Head of the Department of Geology and Geography at Oberlin College. He was born at Tolono, Illinois on May 12, 1871 and secured his Bachelor of Science degree at the University of Illinois in 1896, and a Master of Science degree from the same institution in 1898. In 1901 he received his M.A. degree from Harvard University and the Ph. D. degree from Cornell University in 1905. His first academic position was Instructor of Geography at Cornell from 1904-1905. Next he served as Assistant Professor of Geology at Ohio State University from 1905 to 1910 where he was also Secretary of the College of Education from 1907 to 1910. In 1910 he went to Oberlin College as Professor of Geology and Geography and remained until 1936 after which he was on Emeritus rank at Oberlin. During these years he also was Assistant Geologist for the Ohio Geological Survey. After retirement at Oberlin he was Visiting Professor of Geology at Berea, Kentucky in 1941 and at Missouri State University from 1942 to 1948. He was a Fellow of the American Geographical Society and also of the Geological Society of America. He was President of The Ohio Academy of Science in 1915.

On September 10, 1901 Dr. Hubbard was married to Miss Edna Rugg who survives him as also the daughters, Ruth Marcilla, Dorothy Hope, Marjorie Helen and one son, Oscar Edwin Hubbard.

Dr. Hubbard published numerous papers on geology and geography and is the author of a text-book *The Geography of Europe*. On June 11, 1958 he died in his 87th year of uremia and was buried in Westwood Cemetery, Oberlin, Ohio.

4—**Dr. Charles Franklin Kettering**, Fellow of the Academy in the Physics and Astronomy Section, was nationally known for his many inventions in the field of engineering as well as Director of Research for the General Motors Corporation.

Dr. Kettering was born in Loudonville, Ohio on Aug. 29, 1876. He graduated from Ohio State University in 1904 as an Electrical and Mechanical Engineer. Later in his life more than 40 Colleges and Universities gave him honorary degrees. From about 1915 he was Director of Research for General Motors Corporation until 1947 when he retired to a consultant status. For many years he was consulting engineer for the National Cash Register Corporation in Dayton. In 1920 he organized the Dayton Engineering Laboratory to work upon his own inventions such as the rural home lighting systems, starting and ignition systems for automobiles, etc. He was also an organizer of the Dayton Metal Products Co. In 1927 he financed the Kettering Foundation at Yellow Springs, Ohio to carry on research in diverse projects such as chlorophyll and photosynthesis. At different periods he was President of the Edison Foundation and the Sloan-Kettering Foundation for Cancer Research. He was also a trustee of Ohio State University and many other colleges. He was Chairman of the National Inventors' Council and promoter of numerous studies on higher octane fuels, tetra-ethyl lead and non-toxic refrigerants.

On August 1, 1905 Dr. Kettering married Miss Olive Williams who preceded her husband in death in 1946. To this union was born one son, Eugene Williams Kettering.

Dr. Kettering died of arteriosclerosis in his 82nd year at Dayton, Ohio on Nov. 25, 1958 and was buried at Dayton where he had lived for many of his fruitful years.

5—**John A. Michael**, member of the Academy in the Science Education Section and identified for years with the public school system of Eaton, Ohio. Mr. Michael was born on Sept. 15, 1891 at Eaton, Ohio and secured his Bachelor of Arts degree in Adelbert College of Western Reserve University in 1922. Later he received a master's degree in Education at Ohio State University and a Bachelor of Science in Chemical Engineering from Tri-State College.

From 1930 to 1937 Mr. Michael was Superintendent of Schools of Eaton, Ohio and from the latter year until his death was a science teacher in Eaton High School. In 1953 he was named the outstanding science teacher of the year in Ohio public schools. He was one of the organizers of Science Day at Miami University.

On June 8, 1930 Mr. Michael married Miss Margaret Allen; to them were born four children: James Allen Michael, Mary Anna Michael, Thomas Arthur Michael and George Edward Michael.

On Oct. 7, 1957 Mr. Michael succumbed to carcinoma of the lung and was interred in Mound Hill Cemetery in Eaton, Ohio.

6—**Ferris W. Myrice**, a member of the Academy in the Science Education section was for 28 years a science teacher in the Bowling Green Junior High School. He was also a promoter of the Junior Academy of Science in Northwest Ohio.

Mr. Myrice was born in Deshler, Ohio on May 7, 1896. He received his Bachelor of Arts degree at Defiance College about 1915 and the Master's degree from Ohio State University about 1925. During World War I he served his country in the 332nd Infantry Reg. U.S.A. Before his military service he taught a rural school in Henry County, Ohio during 1914 and 1915. From 1919 to 1925 he was a principal and mathematics and science teacher in Deshler Schools. From 1926 to 1929 he was principal at Harrod High School and in the latter year came to Bowling Green Junior High School as a mathematics teacher. In 1936 he became its science teacher and held the position until his death. In 1955 he was voted the outstanding science teacher in Northwest Ohio.

On July 31, 1921 Mr. Myrice married Miss Janette Loach of Lima and to them were born two daughters, Miss Josephine Myrice, RN and Mary Jane Myrice in Bowling Green who with their mother survive him.

Mr. Myrice was active in public service in Bowling Green and served as First Aid Chairman for the Wood County Red Cross and for 45 years was a worker in Boy Scout activities—achieving the Silver Beaver award.

From 1945 to 1954 during the summers Mr. Myrice was employed as a technician of the Ohio Experiment Station and in a project sponsored by H. J. Heinz Co. developed by his research a new variety of cucumber. He also is coauthor of three publications of the Ohio Experiment Station on various types of beans. He was a member of the Bowling Green Masonic lodge and the Presbyterian Church.

On Feb. 7, 1957 Mr. Myrice died in Wood County Hospital, aged 60 years, of lymphosarcoma and was interred in Oak Grove Cemetery at Bowling Green.

7—**Miss Helen Lucille Park**, member of the Academy in the Zoology Section and for ten years Assistant Professor of Biology at Akron University. Miss Park was born on Feb. 24, 1898 at Scottsville, Kansas and secured her Bachelor of Arts degree at Ottawa University in 1920 and the Master of Arts degree at the University of Nebraska in 1923. Over the years she did additional graduate work at Iowa University, Puget Sound Biological Station, Friday Harbour, Washington; and the Universities of Colorado and Kansas.

She held academic positions in biology at these institutions; El Paso (Tex.) High School and El Paso Junior College, Tabor College, Tabor, Ia. and for a while was instructor in English at an Aircraft Technical School in Sao Paulo, Brazil and finally as Ass't. Prof. of Biology at Akron University from 1947 to 1957.

Miss Park was a member of the Society of the Sigma Xi and the author of various papers on anatomy—the most recent being "The Heart and its Vessels in Some New World Bats" in 1954 published in the Transactions of the Kansas Academy of Science.

In September, 1958 Miss Park died at Laurence, Kansas of carcinoma in her 61st year and was buried at Neodesha, Kansas.

8—**Dr. Daniel P. Quiring**, a Fellow of the Academy in the Medical Section was Associate Professor of biology at Western Reserve University, Cleveland and Head of the Bunts Educational Institute, an affiliate of the Cleveland Clinic Foundation.

Dr. Quiring was born on Oct. 22, 1894 at Newton, Kansas and received his AB degree from Oberlin College in 1917, his M.A. from the University of Illinois in 1928 and the Ph. D. degree from Western Reserve University in 1932. He was an Assistant in Zoology at the University of Illinois from 1927 to 1929 and in that year came to Western Reserve University as an Instructor. In 1933 he was promoted to the rank of Assistant Professor and in 1945 to Associate Professor. From 1934 until his death he was also Head of the Bunts Educational Institute.

He was a member of the A.A.A.S., the American Society of Zoologists, the American Association of Anatomists, the American Society of Physical Anthropologists and Sigma Xi. In World War I he was surgical assistant in the AEF in France. He also belonged to the American Museum of Natural History, the Cleveland Museum of Natural History and was on the Board of Governors of the Cleveland Zoological Society.

Dr. Quiring was a pioneer in the use of films in teaching anatomy and many of his films are used throughout the country. He published more than 30 papers in the fields of anatomy, morphology and relative growth—and was the author of these medical text-books: "Head, Neck and Trunk"—Lea & Febiger, "The Extremities"—Lea & Febiger and "Collateral Circulation"—Lea & Febiger and a college text, "Functional Anatomy of Vertebrates"—McGraw Hill.

Mrs. Quiring, nee Marion Haggerty, died in July 1957. There survive two daughters, Mrs. Clemens von Koschembahr and Mrs. Ann Shure.

On March 25, 1958 Dr. Quiring died in Cleveland of acute leukemia at the age of 63 years and was buried in Lakeview Cemetery, Cleveland.

9—**Professor Emmett Rowles**, Fellow of the Academy in the Zoology Section was Associate Professor of Physiology and Biochemistry at Ohio University, Athens, Ohio where he had served on the faculty for 38 years in various capacities.

Professor Rowles was born at New Metamoras, Ohio on Nov. 9, 1899 the son of a physician there. After graduation from the local high school he and his twin brother, Everett Rowles, came to Ohio University, where he received the A.B. degree in 1920. He secured his M.A. degree from the University of Minnesota in 1923. He did graduate research work in 1921 and 1924 at the University of Washington's Marine Biological Station and during four different summers at the University of Minnesota. He spent that of 1933 at the Stone Laboratory of Ohio State University.

His academic career started in 1918 as Assistant in Spanish at Ohio University and in biology in 1920 and also served as an Assistant in Zoology at Minnesota in 1920-1923 and in Physiology in 1923. He returned to Ohio University in 1923 and after service as Assistant Professor became finally Associate Professor of Physiology in 1933. Professor Rowles was a member of several scientific societies in zoology and psychology and was elected to the honor societies of Phi Beta Kappa, Sigma Xi, Gamma Alpha and the Torch Club. He was member of Theta Chi Fraternity. He published articles in the Journal of Experimental Zoology and the Journal of Applied Psychology.

On June 4, 1921 Professor Rowles married Miss Jessie M. Hostetter; to them were born three daughters: Mrs. Jessie Marie Tom, Mrs. Elsie Lou Bobo and Mrs. Cornelia Ann Ruth. He is survived by them, his wife and 9 grand-children.

On Nov. 8, 1958 he suffered a severe cerebral hemorrhage and died suddenly one day prior to his 59th birthday. He was buried in West Union St. Cemetery in Athens, Ohio.

10—**Dr. William H. Shideler**, Fellow of the Academy in the Geology Section, was Professor and Chairman of the Department of Geology at Miami University for many years and for the last two years, Professor of Geology at Hiram College. He was born on July 14, 1886 at West Middletown, Ohio. He received his A.B. at Miami University in 1907 and the Ph. D. degree from Cornell University in 1910. In the same year he started his career at his alma mater as Assistant Professor of Geology and Zoology and later Associate Professor and finally in 1920 was appointed Professor and Head of the Department of Geology, becoming emeritus in 1957. During the years 1957 and 1958 he was Professor of Geology at Hiram College.

On June 16, 1911 he married Miss Katherine Hoffman. They had two sons, William W. and James H. Shideler. Dr. Shideler was a Fellow of the A.A.A.S., and a member of the Geological Society of America, Phi Beta Kappa, Sigma Xi, Phi Sigma, Sigma Gamma Epsilon, Omicron Delta Kappa and a founder of Phi Kappa Tau. He was President of The Ohio Academy of Science in 1951.

In December, 1958 Dr. Shideler died at the age of 72 years as the result of a cerebral hemorrhage. He was interred at Oxford, Ohio where he had lived as student and professor for so many years.

11—**Mrs. Stanley D. Simon** (nee Cecile Freiberg), a member of the Academy in the Plant Sciences Section and former graduate student at the University of Cincinnati.

Mrs. Simon was born on April 13, 1908 in Cincinnati, Ohio and attended Smith College where she received the B.A. degree in 1930.

In 1933 Cecile Freiberg married Dr. Stanley B. Simon, a physician in Cincinnati. As a house-wife she continued her interest in plant science and enrolled as a graduate student at Cincinnati University. She attained the Master of Science degree in 1956 and was elected a member of the Cincinnati Chapter of the Society of Sigma Xi.

Mrs. Simon was the mother of two children, Jill S. Freeword and Margot Simon, who, with her husband, survive her.

On Jan. 29, 1958 Mrs. Simon died of adeno-carcinoma in her 50th year and was cremated in Cincinnati.

12—**Dr. Joseph Fisher Stanfield**, was a Fellow of the Academy in the Plant Sciences Section and Professor and Chairman of the Department of Botany at Miami University.

He was born on June 4, 1901 at Lewisburg, Kentucky and secured the A.B. degree at Western State College, Colorado, in 1927. In 1930 he received his M.A. degree at the University of Colorado and the Ph. D. degree from the University of Iowa in 1937.

He taught in several high-schools of the State of Colorado from 1927 to 1929. Then from 1931, through all but two years, until 1938, he was Assistant Professor of Biology at Knox College. From 1939 to 1943 he served as Professor of Botany at Chicago Teachers College and in his final position as Professor of Botany and Department Head at Miami University from 1944 until 1958.

On Aug. 1st, 1939 Dr. Stanfield married Miss Margaret Ellen Cox. There were no children.

Dr. Stanfield was a Fellow of the A.A.A.S., Botanical Society of America, the Illinois and Ohio Academies of Science, the Amer. Ass'n. of Biology Teachers, Amer. Forestry Ass'n. as well as Secretary-Treasurer of the Amer. Society of Plant Physiologists, the Amer. Ass'n. of University Professors, Society of Sigma Xi and Gamma Alpha. He was the author of numerous articles on reproduction of plants and methods of teaching biology in various biological journals.

In May, 1958 Dr. Stanfield died of a cerebral hemorrhage in his 57th year and was buried at Vermont, Illinois.

Analysis of this necrology report shows that 6 members died of cardio-vascular-renal syndrome, 5 died of cancer and one of leukemia. In this group of 12 deaths, 4 were 70 years or over while 8 were in the 5th and 6th decades of their lives.

H. H. M. BOWMAN, *Chairman*
